



Before Begin



Data Science Bootcamp Graduate

#FLATIRON SCHOOL

Bachelor Chemistry





Data Scientist





Agenda

01

THE HISTORY

04

METHODS & MODEL

02

THE PROBLEM

05

EVALUATION

03

THE DATA

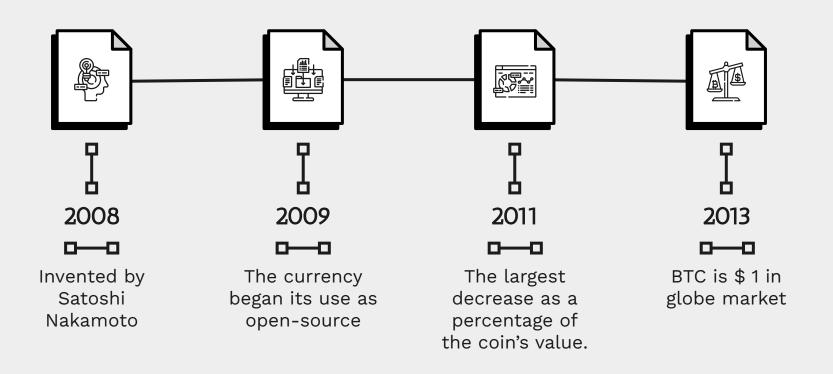
06

FURTHER



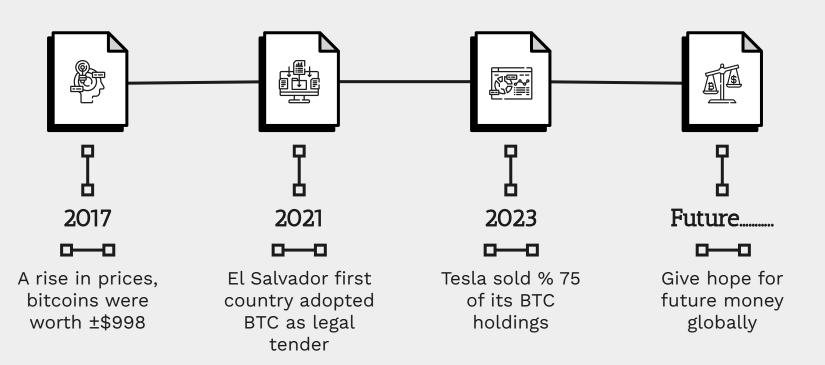
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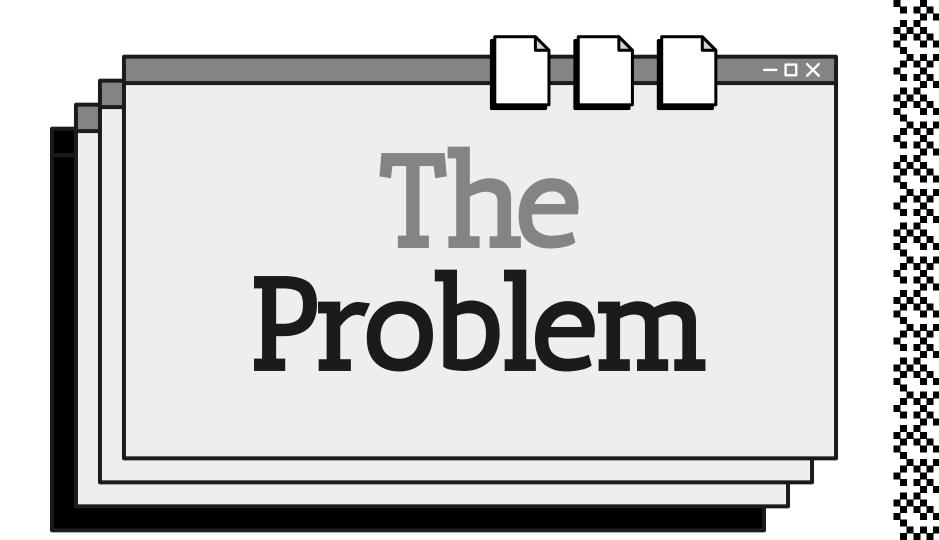
BTC History - 2008→ 2013



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BTC History - 2017 → Future







Work System BTC?

Blockchain Technology



Immutable and decentralized system

Decentralized Network



Multiple nodes store data

Long-term Store of Value



Asset, currency, or commodity



Differentiation Between Currencies



Cryptocurrency



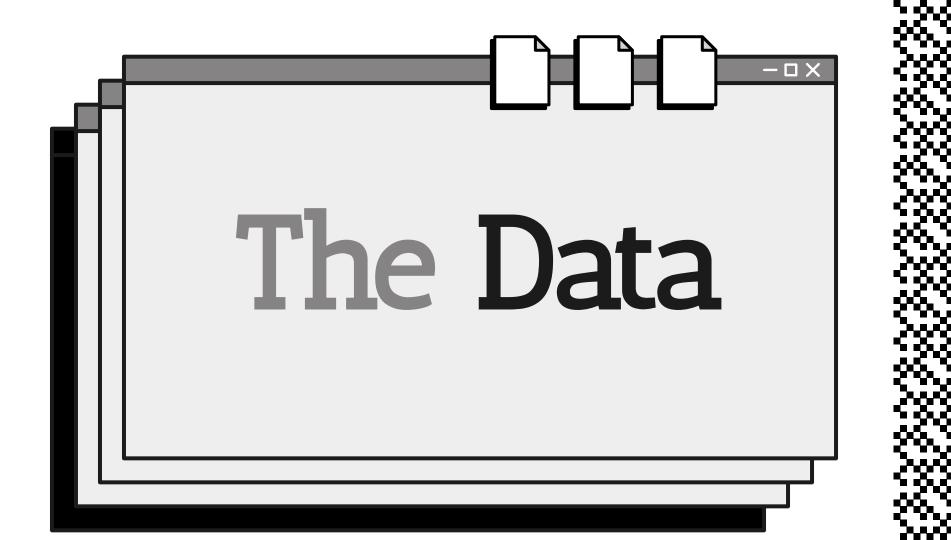
Multiple nodes store and process data



Regular Currency



Data is processed and stored by single node





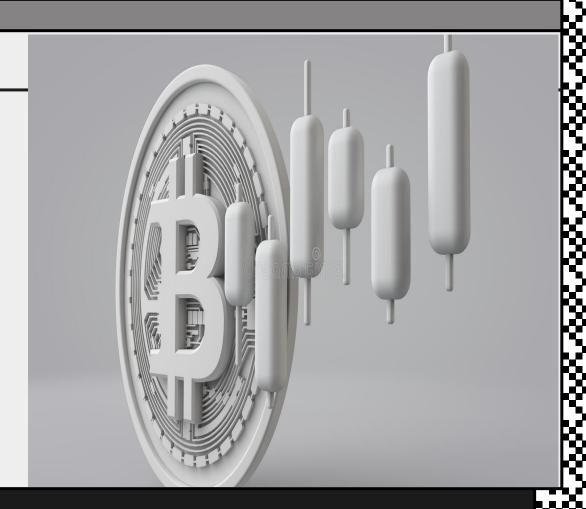
Dataset Facts

Source : Yahoo Finance!



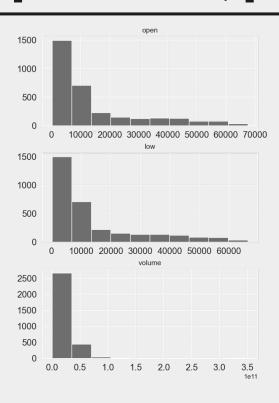
Bitcoin Historical Prices-USD Open - Close High - Low Volume

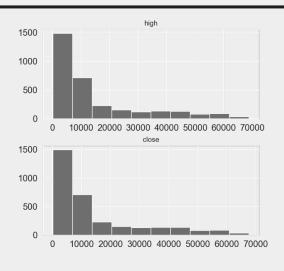
Timeline: Sep, $2014 \rightarrow May$, 2023





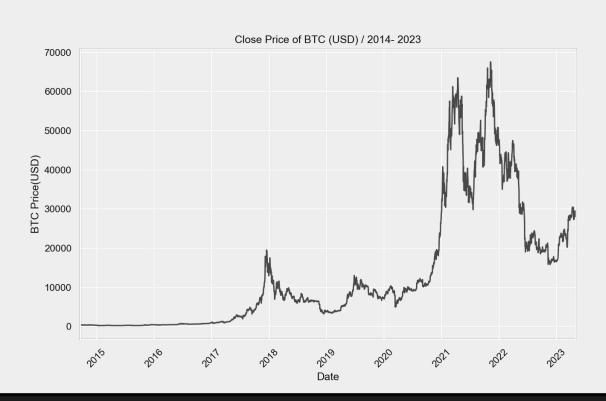
Normality All Columns (open, high, low, close, volume)





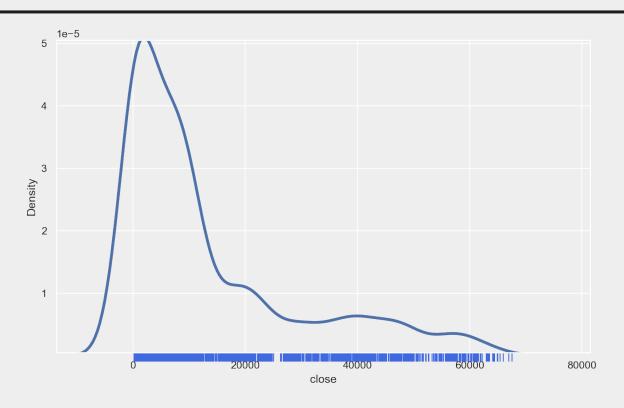


Close Price BTC Over Time



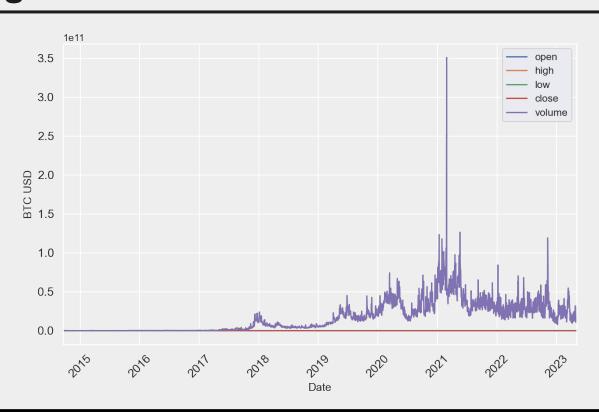


KDE Close Price of BTC



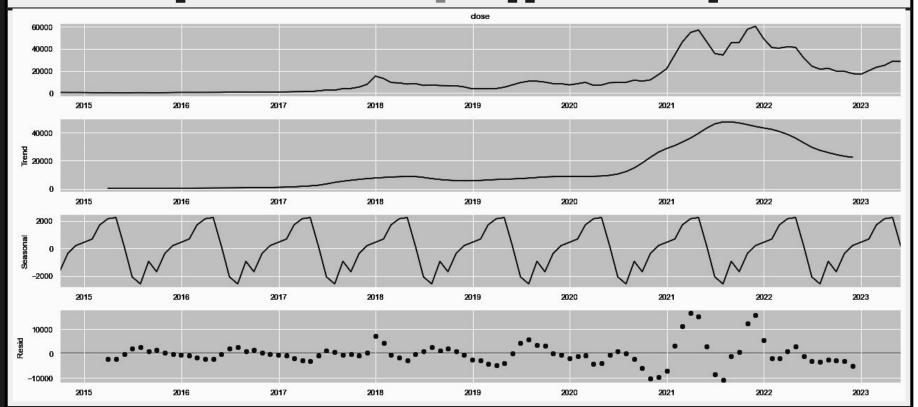


The Highest Volume \$ 35 B in 2021

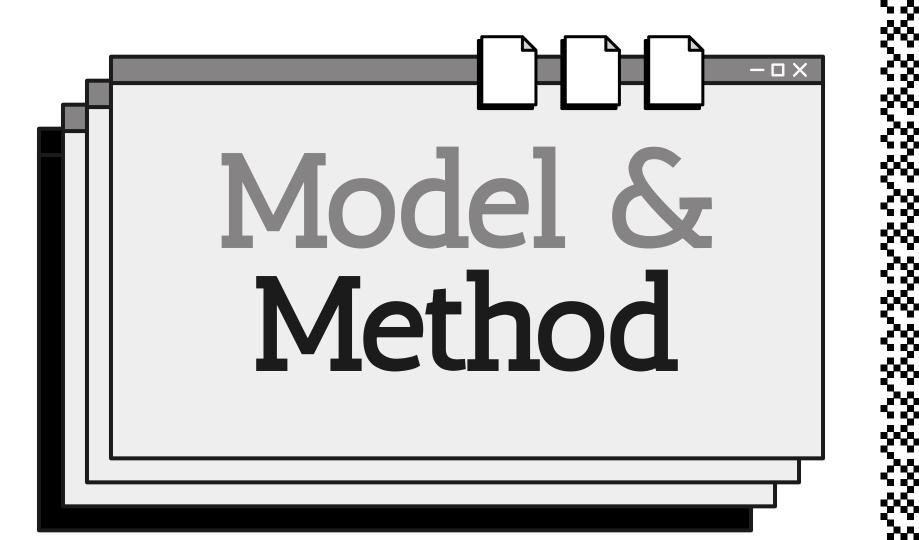




Decomposition Monthly Cryptocurrency











Let's Review Some Statistics Forecast Measures

RMSE - 3230

AIC - 1510

RMSE- 4333

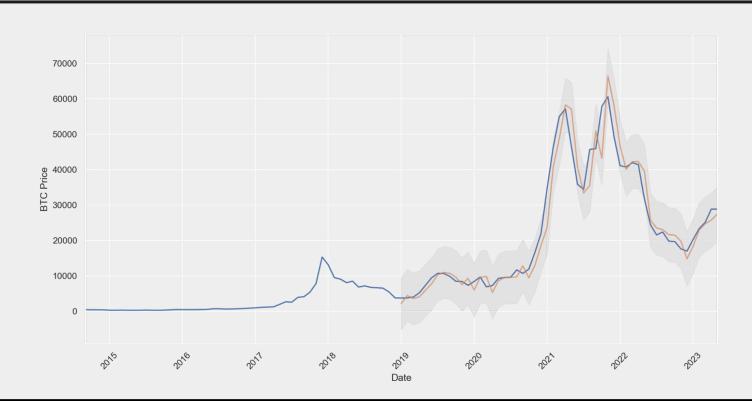
CI - 95%

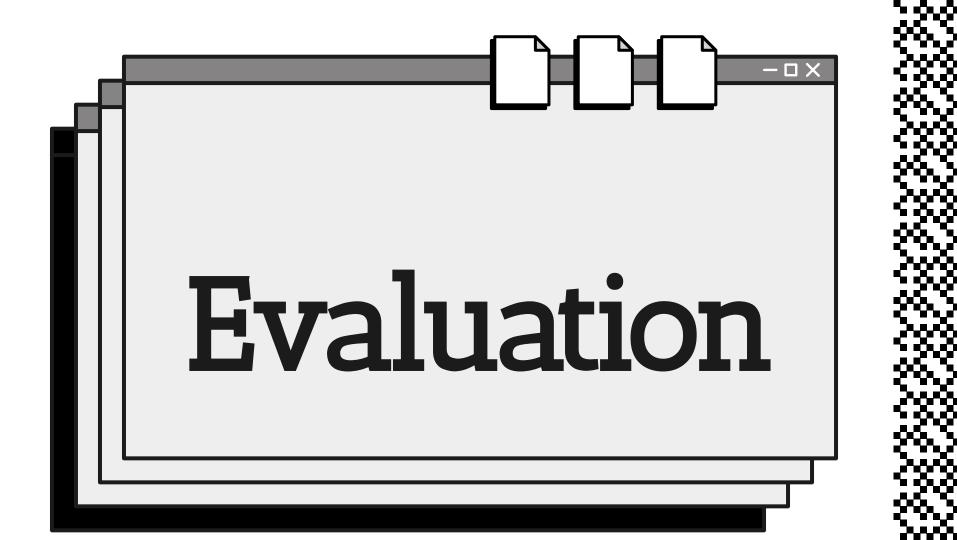
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Expected Root Mean Squared Error Akaike Information Criteria Forecast Root Mean Squared Error Confidence Interval



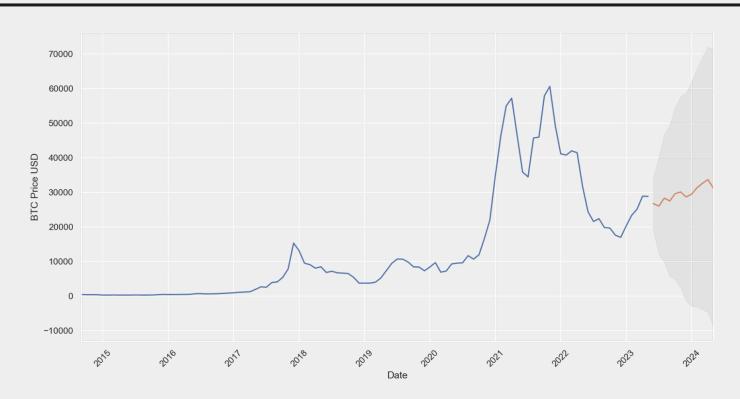
Prediction After 2019





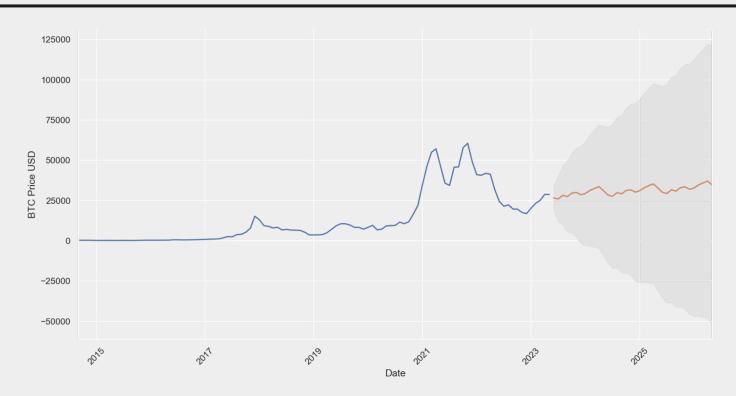


1 Yearly Forecast - 2024 Prediction



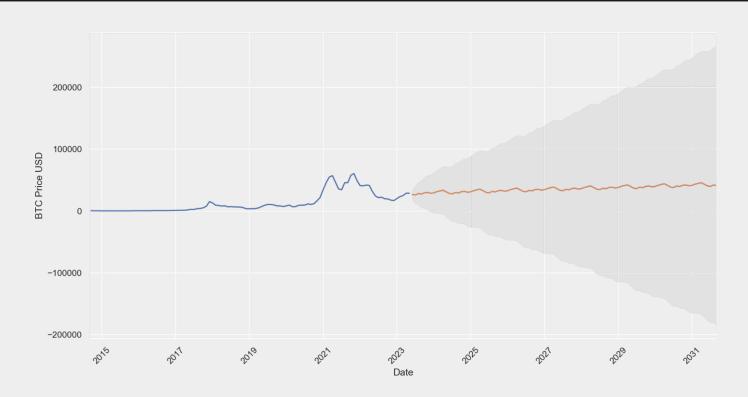


3 Yearly Forecast - 2025 Prediction





8 Yearly Forecast - 2031 Prediction



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2024

0-0

\$30-35K

2025

0-0

\$35-40K

2031

\$40K +



Factors That Affect the Price of 1 Bitcoin



Supply



Demand



Cost of production



Number of competitors



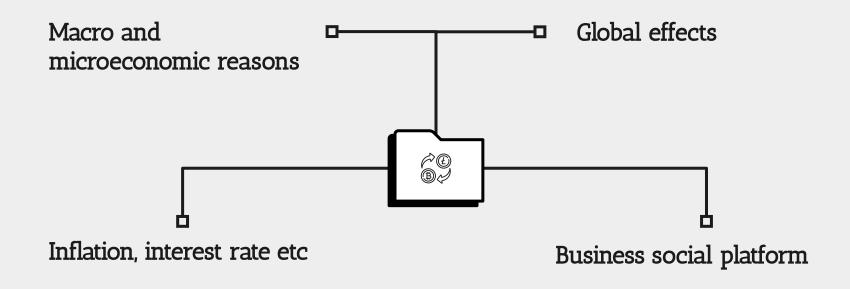
Regulation



Media coverage

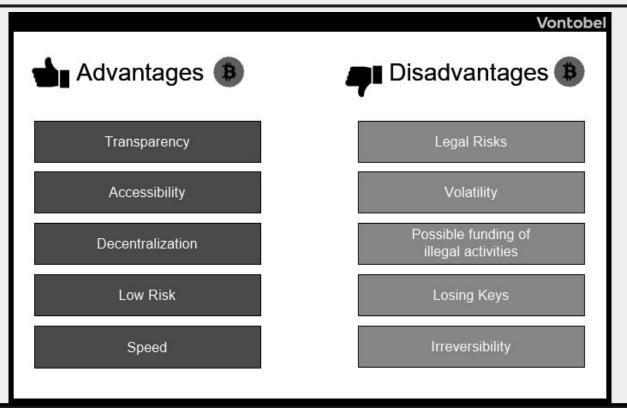


Other Factors





Advantages & Disadvatages





BTC Around the Globe



India

41 % Brazilian has own crypto



China

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Thanks!

Do you have any questions?







github.com/drykvf



linkedin.com/in/hera-k





References

- https://finance.yahoo.com/quote/BT C-USD/
- https://bitcoin.org/en/how-it-works
- hhttps://en.wikipedia.org/wiki/His tory_of_bitcoin
- https://www.fidelity.com/learning-c enter/trading-investing/crypto-vs-c ash